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1. MDA15-005: Gaming Trainer

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Several missile defense training systems exist to assist the Warfighter in learning and becoming operationally proficient with the system. This topic seeks to take this a step further by leveraging gaming technologies to determine critical areas of performance and to also design a wrapper to encourage the users to "play" the system, exercising those critical components to refine performance. Model ...

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2. MDA15-006: Command and Control Human-to-Machine Interface

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Command and control human-to-machine interface is critical to overall missile defense system performance due to human decisions and interactions associated with command and control systems. Recent advances in virtual reality, stereo-graphics, touch screen interfaces, and automated decision aides have the potential to revolutionize how Warfighters interact with command and control systems by provid ...

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3. MDA15-008: Improved Track Accuracy for Missile Engagements

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Missile defense performance is dependent on the efficient acquisition, tracking, and discrimination of threatening objects by disparate and geographically dispersed sensors. Precision tracking is a key component for all phases of a missile defense engagement to ensure efficient use of resources and to enhance each component's contribution to the success of such engagements. Candidate solutions s ...

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4. MDA15-010: Innovative Methodologies for Modeling Fracture Under High Strain-rate Loading

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Seek high fidelity modeling tools for fracture mechanics that are accurate and cost effective for post intercept debris prediction. Acceptable solutions potentially incorporate improved damage models, meshless methods, "peridynamics," or any combination thereof. Use of first-principles codes to predict the characteristics of post-intercept debris requires prediction of fracture and cracking of ...

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5. MDA15-014: Thermally Efficient Emitter Technology for Advanced Scene/Simulation Capability in Hardware in the Loop Testing

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Ground testing of exo-atmospheric interceptor IR sensors play an essential role in the development of advanced algorithm concepts, mitigating flight test risk/cost and evaluating tactical performance. Numerous next-generation IR emitter technologies such as IR light emitting diodes (LEDs), photonic crystals and resistors are in development. These devices address the need for greater projected temp ...

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6. MDA15-017: Innovative Antenna Arrays Enabling Continuous Interceptor Communications

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Phased antenna arrays are expensive, heavy systems with complex hardware configurations. Despite these complexities, phased arrays are advantageous in situations where mechanical steering is impractical. In the past decade, there has been maturation in technology regarding the use of digital beamforming (DBF) to substantially augment the system-level capabilities of phased array antennas. However, ...

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7. MDA15-018: Multi-Object Payload Deployment

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Future weapon systems may be required to deliver multiple payloads. A key technological driver for multi-object payload vehicles is the restraint and deployment method. This topic seeks innovative solutions to reliably restrain and release the payloads with precise deployment dynamics. Restraint technology must withstand high axial shock and acceleration loads. Payload deployment dynamics should c ...

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8. MDA15-020: Interceptor Thermal Protection Systems

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Objectives for future missile defense applications include increased kinematic reach. One method of maximizing kinematic reach is through inert mass reduction. Interceptors require a significant amount of thermal protection system materials to survive fly-out trajectories. An example of current state-of-the-art material for thermal protection systems has a density of approximately 1.72 g/cm^3 (0.0 ...

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9. MDA15-022: Low Light Short Wave Infrared Focal Plane Arrays

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

This topic focuses on enabling next generation sensors and improving FPA performance beyond the current state-of-the-art to support future missile defense applications. This topic seeks low noise, high sensitivity FPA technologies that detect very low signal levels. Current FPA technologies for imaging in low-light conditions at SWIR wavelengths are limited by poor quantum efficiency and/or poor n ...

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10. MDA15-023: Solid State High Power Amplifier for Communications

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The goal of this topic is to investigate solid state power amplifier (SSPA) technologies that meet or exceed the output power (greater than 1 kW), duty factor, operating frequency (K-band:20-22 GHz), reliability, sustainability, and supportability achievable with existing traveling-wave tube amplifiers as a potential replacement for klystron tubes in future communication systems. Klystron tube tec ...

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